



Environmental Test Certificate

19 September, 1997

Reference Number: 8249
 Title: Enclosure Testing of Cable Glands
 Description of Unit: PG Thread Cable Glands
 Model Number: 2 off EG7, 2 off EG9, 2 off EG11, 2 off EG13.5,
 2 off EG16, 2 off EG21 and EG29
 Serial Numbers: N/A
 Customer: KAI SUH SUH Enterprise Co. Ltd.
 38, Yen Ping N. Rd.
 SEC 1, TAIPEI
 TAIWAN R.O.C
 Order No: 243
 Date Unit/s Received: 11 June, 1997

Test Description/Specification:

Immersion Test

The Immersion Test was performed in accordance with AS1939-1990 (IEC 529 - 1989) Degrees of Protection provided by Enclosures Clause 14.2.8, IPX8 to the following parameters:

Test:	Immersion
Depth in Water:	1m \pm 0.02m
Duration:	60 minutes

Note: Temperature of water was not more than 5°C different from the ambient air temperature.

Configuration for Immersion Test

Two of each type of the cable glands tested were fitted with approximately 150mm of cable representing the nominal maximum and minimum permitted cable diameters. The cable samples were fitted as described in the following table.

Sample marking, by Client		Cable fitted to Cable Glands	
Cable Gland	Diam. mm	Diam. mm	Cable Description
EG 7 (PG 7)	6.5 Max	6.5	Grey PVC shielded multi-core
EG 7 (PG 7)	3.0 Min	3.0	Brown PVC multi-stranded
EG 9 (PG 9)	8.0 Max	8.5	Black PVC three core flexible
EG 9 (PG 9)	4.0 Min	4.4	Green/Yellow PVC earth conductor
EG 11 (PG 11)	10.0 Max	10.5	Orange PVC multi-core
EG 11 (PG 11)	5.0 Min	5.1	Blue PVC standard building wire
EG 13.5 (PG 13.5)	12.0 Max	12.0	Blue composite cable covered in heatshrink sleeving
EG 13.5 (PG 13.5)	6.0 Min	6.1	Grey PVC multi-core
EG 16 (PG 16)	14.0 Max	13.1	Orange PVC multi-core covered in heatshrink sleeving
EG 16 (PG 16)	11.0 Min	10.5	Red PVC standard building wire
EG 21 (PG 21)	18.0 Max	17.7	Orange PVC multi-core armoured
EG 21 (PG 21)	13.0 Min	12.9	Orange PVC multi-core
EG 21 (PG 21)	25.0 Max	25.1	Black PVC multi-core
EG 21 (PG 21)	18.0 Min	17.7	Orange PVC multi-core armoured
EG 29 (PG29)	25.0 Max	25.1	Black PVC multi-core
EG 29 (PG29)	18.0 Min	17.7	Orange PVC multi-core armoured

No sealing enhancement methods other than those normally provided by the cable glands were employed.

The cable glands were attached to the test box so that the gland compression nut ends were exposed to the test pressures.

Dust and Access to Hazardous Parts Test

For test details and results obtained, refer to Testing and Certification Report No.16406 attached.

Deviation from Above:


Nil

Results/Observations:

There was no evidence of leakage or dust ingress past any of the cable glands tested.

The cable glands tested conformed to IEC 529 (AS1939), Grade IP68 to an immersion depth of 1.0 metre in water


Test Officer


Production Manager